

# SAFETY DATA SHEET

Version: v1

Revision Date: 2023-11-

06

Print Date: 2023-11-16

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Atomized copper powder  
Product Number : A171301  
Brand : aladdin  
CAS-No. : 7440-50-8(power)

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : It is only for scientific research purposes, not for medicine, family standby medicine or other purposes.

### 1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd  
Address : 36 Xinjinqiao Road, Shanghai  
Telephone : 400-620-6333  
Fax : no data available

### 1.4 Emergency telephone number

Emergency Phone : 0532-83889090

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

### 2.2 GHS Label elements, including precautionary statements

Pictogram : no data available  
Signal word : no data available  
Hazard statement(s)  
Precautionary statement(s)

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : Copper  
Formula : Cu  
Molecular weight : 63.55

CAS No. : 7440-50-8(power)  
EC-NO. : no data available

| Component                     | Classification    | Concentration      |
|-------------------------------|-------------------|--------------------|
| <b>Atomized copper powder</b> |                   |                    |
|                               | no data available | 99.5%,100-325 mesh |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

请教医生。向到现场的医生出示此安全技术说明书。

#### If inhaled

如果吸入,请将患者移到新鲜空气处。如呼吸停止,进行人工呼吸。请教医生。

#### In case of skin contact

用肥皂和大量的水冲洗。请教医生。

#### In case of eye contact

谨慎起见用水冲洗眼睛。

#### If swallowed

禁止催吐。切勿给失去知觉者喂食任何东西。用水漱口。请教医生。

### 4.2 Most important symptoms and effects, both acute and delayed

no data available

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

no data available

#### Unsuitable extinguishing media

用水雾,耐醇泡沫,干粉或二氧化碳灭火。

### 5.2 Special hazards arising from the substance or mixture

no data available

### 5.3 Advice for firefighters

如必要的话,戴自给式呼吸器去救火。

### 5.4 Further information

水喷雾可用来冷却未打开的容器。

---

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust generation. Avoid inhaling vapors, aerosols, or gases. Ensure sufficient ventilation.

### 6.2 Environmental precautions

If safety can be ensured, measures can be taken to prevent further leakage or overflow. Do not allow the product to enter the sewer.

### 6.3 Methods and materials for containment and cleaning up

Sweep and shovel away. Contain the overflow, collect it with an anti electric vacuum cleaner or wet brush, and place it in a container for disposal according to local regulations (see Part 13). Place in a suitable closed container for processing. Contain the overflow, use an anti electric vacuum cleaner or wet brush to collect it, then put it into a container and dispose of it according to local regulations (see Part 13).

### 6.4 Reference to other sections

For disposal see section 13.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place.

### 7.3 Specific end use(s)

no data available

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eyel/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

##### Skin protection

---

Phone: +1 (833) 552-7181 Email: [QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com) Website: <https://www.aladdinsci.com/>

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard derived from it.

#### **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

no data available

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

|                                                 |                            |
|-------------------------------------------------|----------------------------|
| a) Appearance                                   | no data available          |
| b) Odour                                        | no data available          |
| c) Odour Threshold                              | no data available          |
| d) pH                                           | no data available          |
| e) Melting point/freezing point                 | 231.9 °C (449.4 °F) - lit. |
| f) Initial boiling point and boiling range      | 2,270 °C (4,118 °F) - lit. |
| g) Flash point                                  | no data available          |
| h) Evaporation rate                             | no data available          |
| i) Flammability (solid, gas)                    | no data available          |
| j) Upper/lower flammability or explosive limits | no data available          |
| k) Vapour pressure                              | no data available          |
| l) Vapour density                               | no data available          |
| m) Relative density                             | 7.31 g/mL at 25 °C (77 °F) |
| n) Water solubility                             | no data available          |
| o) Partition coefficient: n-octanol/water       | no data available          |
| p) Auto-ignition temperature                    | no data available          |
| q) Decomposition temperature                    | no data available          |
| r) Viscosity                                    | no data available          |
| s) Explosive properties N                       | no data available          |
| t) Oxidizing properties N                       | no data available          |

### **9.2 Other safety information**

no data available

---

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

在建议的贮存条件下是稳定的。

### **10.2 Chemical stability**

Stable under recommended storage conditions

### **10.3 Possibility of hazardous reactions**

热、火焰和火花。

### **10.4 Conditions to avoid**

强酸, 强氧化剂, 酰基氯, 卤素

### **10.5 Incompatible materials**

在着火情况下, 会分解生成有害物质。 - 铜的氧化物

### **10.6 Hazardous decomposition products**

no data available

---

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

no data available

#### **Skin corrosion/irritation**

no data available

#### **Serious eye damage/eye irritation**

no data available

#### **Respiratory or skin sensitisation**

no data available

#### **Germ cell mutagenicity**

no data available

#### **Carcinogenicity**

no data available

#### **Reproductive toxicity**

no data available

#### **Specific target organ toxicity - single exposure**

no data available

#### **Specific target organ toxicity - repeated exposure**

no data available

---

**Aspiration hazard**

no data available

**Additional Information**

no data available

---

**SECTION 12: Ecological information**

**12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

Toxic to aquatic organisms and has long-lasting effects. Avoid release into the environment.

---

**SECTION 13:**

**13.1 Disposal considerations**

**Product**

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur.

Observe all federal, state and local regulations when disposing of the substance.

**Contaminated packaging**

Dispose of as unused product.

---

**SECTION 14: Transport information**

**DOT (US)**

UN number: 3089

Packing group: II

Class: 4.1

Proper shipping name: no data available

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: yes

**IMDG**

UN number: 3089

Packing group: II

EMS-No: no data available

Proper shipping name: no data available

**IATA**

UN number: 3089

Packing group: II

Class: 4.1

Proper shipping name: no data available

---

**SECTION 15: Regulatory information**

no data available

---

**SECTION 16: Other information**

**Further information**

Copyright Aladdin Co. Ltd. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Version: v1

Revision Date: 2023-11-06

Print Date: 2023-11-16